## What is claimed is:

- 1 1. A method for operating a mobile unit, comprising the steps of:
- determining a future location coordinate of a mobile unit; and
- selecting a protocol, for use by the mobile unit, based on the future location coordinate.
- 1 2. The method of claim 1, further comprising the steps of:
- 2 receiving signals representing a location and corresponding time coordinate of the mobile
- 3 unit;
- determining a path of motion of the mobile unit based on the received signals; and
- 5 determining the future location coordinate based on the path of motion.
- 1 3. The method of claim 2, further comprising the steps of:
- 2 receiving signals representing a plurality of location and corresponding time coordinates of
- 3 the mobile unit; and
- 4 determining the path of motion by calculating a direction of the mobile unit based on the
- 5 plurality of location and time coordinates.
- 1 4. The method of claim 2, further comprising the steps of:
- 2 storing previous location and time coordinates of the mobile unit in a historical database;
- 3 obtaining a coordinate representing at least one of a current time and a current location of the
- 4 mobile unit; and
- 5 performing a lookup in the historical database based on the obtained coordinate to determine
- 6 an expected path of motion for the mobile unit.
- 1 5. The method of claim 2, further comprising the steps of:
- 2 maintaining a protocol database associating a protocol with at least one region;
- 3 obtaining a coordinate representing a current location of the mobile unit;
- 4 determining a present region in the protocol database based on the current location of the
- 5 mobile unit; and
- determining the future location coordinate as a boundary of the present region in the protocol
- 7 database that intersects the path of motion, wherein the boundary separates the present region from
- 8 an adjacent region.

1 6. The method of claim 5, wherein the selecting step further comprises the step of:

- 2 selecting the protocol associated with the adjacent region in the protocol database.
- 1 7. The method of claim 6, further comprising the step of:
- 2 revising the protocol database based on service of quality data corresponding to the mobile
- 3 unit.
- 1 8. The method of claim 6, further comprising the step of:
- 2 revising the protocol database based on detected changes in environmental conditions.
- 1 9. The method of claim 1, further comprising the step of:
- 2 initiating operations according to the selected protocol while substantially operating using a
- 3 present protocol.
- 1 10. The method of claim 1, further comprising the steps of:
- 2 operating an application in the mobile unit to process data according to a present protocol;
- 3 and
- 4 altering operations of the application to process data according to the selected protocol at a
- 5 time substantially contemporaneous with the mobile unit's arrival at a location corresponding to the
- 6 future location coordinate.
- 1 11. The method of claim 10, further comprising the step of:
- 2 operating the application to conduct a data session, wherein the data session is maintained
- 3 while the operations of the application are altered.
- 1 12. The method of claim 9, wherein the present and selected protocols each correspond to a
- 2 different communication network selected from the group consisting of at least: a wireless local area
- 3 network (Wavelan) and a cellular network.

1 13. A mobile unit operable to: determine a future location coordinate of the mobile unit; and 2 select a protocol, for use by the mobile unit, based on the future location. 3 1 14. The mobile unit of claim 13, further operable to: receive signals representing a plurality of location and corresponding time coordinates; 2 3 determine a path of motion, wherein the path of motion includes a present location and a 4 direction calculated based on the plurality of location and corresponding time coordinates; and 5 determine the future location coordinate based on the path of motion. 1 15. The mobile unit of claim 14, further operable to: 2 perform a lookup in a protocol database based on the path of motion, wherein the protocol 3 database associates a protocol with each of at least one region; 4 determining a present region based on the performed lookup; 5 and selecting the protocol associated with the present region in the protocol database. 1 16. The mobile unit of claim 13, further operable to: 2 initiate operations according to the selected protocol while substantially operating using a 3 present protocol. 1 17. The mobile unit of claim 13, further operable to: 2 operate an application to process data according to a present protocol; and 3 alter operations of the application to process data according to the selected protocol at a time 4 substantially contemporaneous with an arrival at a location corresponding to the future location. 1 18. A base station operable to: 2 maintain a protocol database associating a protocol with each of at least one region; 3 obtain a path of motion for a mobile unit, wherein the path of motion includes a current 4 location and a direction of the mobile unit;

determine a present region in the protocol database based on the current location of the

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mobile unit; and

determine a future location coordinate of the mobile unit as a boundary of the present region
in the protocol database that intersects the path of motion, wherein the boundary separates the
present region from an adjacent region.

- 1 19. The base station of claim 18, further operable to:
- 2 receive signals representing the path of motion of the mobile unit.
- 1 20. The base station of claim 18, further operable to:
- 2 receive signals representing a plurality of location and corresponding time coordinates of the
- 3 mobile unit;
- 4 store the received location and corresponding time coordinates in a historical database;
- 5 obtain a coordinate representing at least one of a current time and a current location of the
- 6 mobile unit; and
- perform a lookup of the historical database based on the obtained coordinate to determine an
- 8 expected path of motion for the mobile unit.
- 1 21. The base station of claim 18, further operable to:
- 2 receive signals from a mobile unit representing service quality data relating to the mobile
- 3 unit's current location; and
- 4 update the protocol database based on the service quality data.
- 1 22. The base station of claim 21, further operable to:
- 2 update boundaries of the at least one region in the protocol database based on the service
- 3 quality data.
- 1 23. A mobile unit comprising:
- 2 means for determining a future location coordinate of the mobile unit; and
- means for selecting a protocol, for use by the mobile unit, based on the future location.

1	24. A base station comprising:
2	means for maintaining a protocol database associating a protocol with each of at least one
3	region;
4	means for obtaining a path of motion for a mobile unit, wherein the path of motion includes
5	current location and a direction of the mobile unit;
6	means for determining a present region in the protocol database based on the current location
7	of the mobile unit; and
8	means for determining a future location coordinate of the mobile unit as a boundary of the
9	present region in the protocol database that intersects the path of motion, wherein the boundary
10	separates the present region from an adjacent region.